860002

| POSITION                  | INITIALS | ID NO. | DATE |  |  |  |  |  |
|---------------------------|----------|--------|------|--|--|--|--|--|
| FEE DETERMINATION         |          |        |      |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       |          |        |      |  |  |  |  |  |
| FORMALITY REVIEW          |          |        |      |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW | 1        |        |      |  |  |  |  |  |
|                           |          |        |      |  |  |  |  |  |

## INDEX OF CLAIMS

| ~ | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
|   | Allowed                    | - 1 | Interference |
|   | (Through numeral) Canceled | Α   | Appeal       |
|   | Restricted                 | 0   | Objected     |

| Cla      | im       | n Date     |  |  |  |              |          |          | $\neg$   |          | Cla             | im |          |          |  |                 | Date     | е        |             |          |          |          | Cla             | im        |          |          |              | Dat          | е        |          |   |          |                |          |   |
|----------|----------|------------|--|--|--|--------------|----------|----------|--|----------|-----------------|----|----------|----------|--|-----------------|----------|----------|-------------|----------|----------|----------|-----------------|-----------|----------|----------|--------------|--------------|----------|----------|---|----------|----------------|----------|---|
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| -        | Original | 4.11/16/03 |  |  |  |              |          |          |  | - 1      |                 |    | ä        | Original |  |                 | - }      | - 1      |             | - 1      |          | -        |                 |           | <u> </u> | Original |              |              |          |          |   |          |                |          |   |
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| 1        | ×        | ?          | $\vdash$   |  |  | $\dashv$     | -        | -        |  | 一        | -               |    |          | 51       | į.   | $\neg$          |          | 寸        | _           |          |          | T        | $\neg$          |           |          | 101      |              |              |          |          |   |          |                | $\Box$   | _ |
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| -        | 2        | +          | _  |  |  |              | $\dashv$ |          |  |          |                 |    | H        | 53       | +  |                 |          | $\dashv$ | 十           | -        | $\dashv$ | Ħ        | -+              | $\dashv$  | -        | 103      | †            |              |          | -        |   |          | _              | $\neg$   |   |
| _        | 3        | $\perp$    | <u> </u>   | _  |  | -            | _        | $\dashv$ | _  |          |                 |    | -        | 54       | $\mathcal{H}$                                    |                 | $\dashv$ | $\dashv$ |             | -        | $\dashv$ |          | $\dashv$        | $\dashv$  | $\vdash$ | 104      | -            |              |          | -        | _ |          | $\dashv$       | $\dashv$ |   |
| <u> </u> | 4        | Н          |  | _  |  |              | -        |          | _  | $\dashv$ |                 |    | -        | 55       | H  |                 | $\dashv$ |          | $\dashv$    | $\dashv$ | -        | -        | -               | $\dashv$  |          | 105      | +            | -            |          |          |   | $\vdash$ | $\dashv$       | $\dashv$ |   |
| <u></u>  | 5        | L          | _  | _  |  | _            |          |          |  |          |                 |    | H        |          |  | $\dashv$        | $\dashv$ | $\dashv$ | -           | -        |          |          |                 | -         |          | 106      | +            | -            | Н        |          | _ | $\vdash$ |                | -        |   |
| _        | 6        |            |  |  |  |              |          |          |  |          | -               |    | ļ        | 56       | Н  |                 | $\dashv$ | -        |             |          |          |          |                 |           | -        | 107      | -            |              | -        |          |   | $\vdash$ |                |          |   |
|          | 7        |            |  |  |  | _            |          | _        |  |          | <b>—</b> і      |    | <u> </u> | 57       | Н  |                 |          |          | -           |          | -        |          | $\dashv$        |           | -        | 108      | ┼            | -            | $\vdash$ | -        |   | $\dashv$ | <del>-i</del>  | $\dashv$ |   |
|          | 8        | L          |  |  |  | _            |          |          |  |          | _               |    | _        | 58       | 1  |                 | -        |          | $\dashv$    |          | -        | -        | -               | $\dashv$  |          |          | ┼            | -            |          | -        | _ | $\dashv$ |                | -        |   |
| L        | 9        |            | L  |  |  |              |          |          |  |          | _               |    | <u> </u> | 59       | Ш  |                 | _        | _        | _           | $\dashv$ |          |          | -               | _         | _        | 109      | -            |              |          | _        |   |          | _              |          |   |
|          | 10       |            |  |  |  |              |          |          |  |          | _               |    |          | 60       |  |                 | _        | _        |             | _        | _        | - {      | _               | _         |          | 110      | 1            | _            | ļ!       |          |   |          | !              |          |   |
|          | 11       | П          |  |  |  |              |          |          |  |          |                 |    |          | 61       | Ш  |                 |          |          |             | _        |          |          | _               |           |          | 111      | ļ            |              |          |          |   |          | _              |          |   |
|          | 12       |            |  |  |  |              |          |          |  |          |                 |    |          | 62       |  |                 |          |          |             |          |          | _ ;      |                 | _         | -        | 112      | $oxed{oxed}$ | Ш            |          |          |   |          |                | _        |   |
|          | 13       | П          |  |  |  |              |          |          |  |          |                 |    |          | 63       |  |                 |          |          |             |          |          |          |                 |           |          | 113      | 1_           | _            | Ш        |          |   |          |                | $\Box$   |   |
|          | 14       | 1          |  |  | $\neg$   |              |          |          |  |          |                 |    |          | 64       |  |                 |          |          |             |          |          |          |                 |           |          | 114      | L            |              |          |          |   |          |                |          |   |
|          | 15       |            |  | _  | $\neg$   |              |          | $\neg$   |  |          |                 |    |          | 65       |  |                 |          |          |             |          |          |          |                 |           |          | 115      | $\perp$      |              |          |          |   |          |                |          |   |
| -        | 16       | $\vdash$   |  | $\neg$   |  | -            |          |          |  |          | $\neg$          |    |          | 66       | П  |                 |          | T        |             |          |          |          |                 |           |          | 116      | П            |              |          |          |   |          |                |          |   |
|          | 17       | -          | $\vdash$   | -  | $\dashv$   |              | -        |          |  | $\vdash$ | $\neg$          |    |          | 67       | П  |                 | T        |          |             |          |          | 1        |                 |           |          | 117      | Г            |              |          |          |   |          |                |          |   |
| -        | 18       | Н          |  | $\dashv$   | -  |              |          | $\neg$   |  | $\vdash$ | $\dashv$        |    |          | 68       | H  |                 | 1        | 一        | _           |          | $\dashv$ | 1        | 寸               | $\exists$ |          | 118      | Г            |              | П        |          |   | $\neg$   |                | $\Box$   |   |
| -        | 19       | -          | -  | $\dashv$   |  | -            |          |          | -  | $\dashv$ |                 |    | -        | 69       | H  | $\dashv$        | _        | _        |             | _        |          | $\neg$   | 7               | ╗         |          | 119      | T            |              |          |          |   |          |                |          |   |
| -        | -        | $\vdash$   | <u> </u>   |  |  | -            | -        |          |  | -        | $\dashv$        |    | -        | 70       | $\dashv$   |                 | -        | -        | $\dashv$    | -        | $\dashv$ |          | 7               | $\dashv$  | -        | 120      | T            |              |          |          |   |          |                | $\neg$   |   |
|          | 20       | Ľ          | _  | _  | _  |              |          |          |  | _        |                 |    | _        |          | -4   | -               |          |          | $\dashv$    |          | $\dashv$ | $\dashv$ |                 | -         | -        |          | ├            | -            |          |          | - |          |                |          |   |
| <u></u>  | 21       | 1_         |  |  | $\Box$   |              |          |          |  |          | _               |    |          | 71       | 1  | _               | $\dashv$ | -        | -           |          |          | $\dashv$ | $\dashv$        |           | -        | 121      | $\vdash$     | -            | -        |          |   |          |                |          |   |
|          | 22       | L          |  |  |  |              |          | _        |  |          |                 |    |          | 72       | 4  |                 | _        |          | _           |          | _        | _        | 4               | _         | -        | 122      | ┼            | -            |          | -        |   | -        |                | -        |   |
| <u></u>  | 23       | L          |  |  |  |              |          |          |  |          |                 |    | _        | 73       | Ш  |                 | _        | _        |             | _        | 4        |          | -               | _         | <u> </u> | 123      | ┺            | _            |          |          |   |          |                | $\dashv$ |   |
|          | 24       |            |  |  |  |              |          |          |  |          |                 |    |          | 74       |  |                 |          | _        | _           | _        | _        |          | _               | _         | <u> </u> | 124      | <u> </u>     |              | $\vdash$ | _        |   |          |                |          | _ |
|          | 25       |            |  |  |  |              |          |          |  |          |                 |    |          | 75       | Ш  |                 |          | _        | _           | _        |          | _        | 4               | _         |          | 125      | <u> </u>     |              |          |          |   | $\dashv$ | $\dashv$       |          |   |
|          | 26       | П          |  |  |  |              |          |          |  |          |                 |    |          | 76       |  |                 |          |          |             |          |          |          |                 | _         |          | 126      | L            |              |          |          |   |          | _              | _        |   |
|          | 27       | T          |  |  |  |              |          |          |  |          |                 |    |          | 77       |  |                 |          |          |             |          |          |          |                 |           |          | 127      | <u></u>      |              |          | _        |   |          |                | _        |   |
|          | 28       | 1          |  |  |  |              |          |          |  |          |                 |    |          | 78       |  |                 |          |          |             |          |          |          |                 |           |          | 128      | <u>L</u> .   |              |          |          |   |          |                | $ \bot $ |   |
| -        | 29       | T          |  |  |  |              |          |          |  |          |                 |    |          | 79       |  |                 | $\neg$   |          |             |          |          |          |                 |           |          | 129      | <u> </u>     |              |          |          |   |          |                |          |   |
| -        | 30       | 十          | $\vdash$   |  |  |              |          |          |  |          |                 |    |          | 80       | П  |                 | _        |          | $\neg$      |          |          |          |                 |           |          | 130      |              |              |          |          |   |          |                |          |   |
| $\vdash$ | 31       | +          | $\vdash$   |  |  |              |          |          |  |          |                 |    |          | 81       | П  |                 | $\neg$   |          |             |          |          |          | $\neg$          |           |          | 131      | П            |              |          |          |   |          |                |          |   |
| $\vdash$ | 32       | +          | -  | -  |  |              |          | _        |  | -        |                 |    | -        | 82       | $\top$   |                 |          |          |             |          |          |          |                 |           |          | 132      | 1            |              |          |          |   |          |                |          |   |
| $\vdash$ | 33       | +          | -  | -  |  |              | =        |          |  | -        | $\dashv$        |    | _        | 83       | J  | $\vdash$        |          | $\dashv$ |             |          | _        | $\neg$   | ヿ               |           |          | 133      | Т            | _            |          |          |   |          |                | $\Box$   |   |
| -        | 34       | +          | -  | _  |  |              | -        | -        | -  |          |                 | _  | 1        | 84       | _  |                 |          | $\neg$   | 一           |          |          | $\neg$   | $\neg$          |           |          | 134      |              |              |          |          |   |          |                | П        | _ |
| $\vdash$ | 35       | +          | <del>                                     </del> |  | $\vdash$   | $\vdash$     |          |          | -  | -        | $\dashv$        | 0  | 13       | 85       |  |                 | -1       | $\dashv$ |             | -        | $\dashv$ | -        | $\dashv$        | $\neg$    |          | 135      | Т            |              |          | П        |   |          |                | $\neg$   |   |
| $\vdash$ | 36       | +          | $\vdash$   |  | $\vdash$   | $\vdash$     |          | -        | -  | -        | $\vdash$        |    | +        | 86       |  | Н               | -        |          | -           | $\dashv$ | -        | $\dashv$ |                 | $\dashv$  |          | 136      | Т            |              |          |          |   |          |                | $\neg$   |   |
| -        | _        | +          | -  | -  |  | -            |          |          |  | -        | $\vdash\vdash$  |    | -        | 87       | -  | $\vdash \vdash$ |          | $\dashv$ |             | $\dashv$ | $\dashv$ |          | $\dashv$        | $\dashv$  |          | 137      | $\vdash$     |              |          |          |   | $\Box$   |                | $\neg$   | _ |
| -        | 37       | +          |  | -  |  | _            | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash \vdash$ |    | -        | 88       | -  |                 |          |          |             | $\dashv$ |          | $\dashv$ | $\dashv$        | $\dashv$  | -        | 138      | $\vdash$     | <b>-</b>     |          | -        |   | -1       | $\neg$         | $\neg$   |   |
| -        | 38       | 4          | -  |  |  | _            | <u> </u> | _        |  | -        | Н               |    | -        | 89       | $\vdash$   |                 |          | -        |             | $\dashv$ |          |          | $\dashv$        | $\dashv$  | -        | 139      | +            | -            |          |          |   | $\vdash$ | ᅱ              | $\dashv$ | _ |
|          | 39       | 1          | <u> </u>   | <u> </u>   | Ш  |              | <u> </u> | ļ        | <u> </u>   | <u> </u> | $\vdash$        |    | $\vdash$ |          | $\vdash$   | $\vdash$        | $\vdash$ |          |             | $\dashv$ | _        |          | -               | $\dashv$  | $\vdash$ |          | $\vdash$     | -            | $\vdash$ | $\vdash$ |   | $\dashv$ |                | $\dashv$ |   |
|          | 40       |            | 匚  |  |  |              |          | _        |  | _        |                 |    | <u></u>  | 90       | <u> </u>   | Ш               |          |          |             |          | _        | _        |                 | _         | -        | 140      | +-           | <del> </del> | $\vdash$ |          |   |          | $\dashv$       | $\dashv$ | _ |
| 1        | 41       |            |  |  |  | L            | L        | L        |  | L        |                 |    | _        | 91       | _  | Ш               |          |          |             | _        |          |          |                 |           | <u> </u> | 141      | 1            | <u> </u>     |          |          | _ | -        |                | -+       |   |
|          | 42       |            |  |  |  |              |          |          |  |          |                 |    |          | 92       |  |                 |          |          |             |          | i        |          | _               |           | _        | 142      | 1            | _            | _        |          |   |          | <del>-</del> i |          |   |
|          | 43       | Г          | 1  |  |  |              |          |          | Ι  |          |                 |    |          | 93       |  |                 |          |          |             |          |          |          |                 | _         | <u>_</u> | 143      |              | _            |          |          |   |          |                |          |   |
|          | 44       | 1          | 1  | Γ  |  |              | Г        |          | Π  | Γ        |                 |    |          | 94       | Γ  |                 |          |          |             |          |          | ]        |                 |           |          | 144      |              | _            | L        | إ        |   |          |                | ہے       | V |
| -        | 45       | Н          | $\vdash$   | <del>                                     </del> | Н  |              | T        | T        | <del>                                     </del> | Г        |                 |    |          | 95       | Ι  | П               |          |          | $\neg$      |          |          | $\neg$   |                 |           | 0.0      | 145      |              | AS           | 31       | _        |   | ال       | U              | H        | 1 |
| $\vdash$ | 46       | -          | $\vdash$   | $\vdash$   | Г  |              | Г        | 1        | $I^-$  | Г        | Г               | ĺ  |          | 96       | Г  | Г               | $\Box$   | $\neg$   |             |          |          | 21       | =\$             | 37        | 1        | A CA     |              |              |          |          |   |          |                | _        | _ |
| $\vdash$ | 47       | 1          | t  | Ι-   | $\vdash$   | $\vdash$     | 1        | !        | $\vdash$   | $\vdash$ | Г               | 1  |          | 97       | Т  |                 |          |          | $\neg \neg$ |          |          | -9       |                 |           |          | 147      |              |              |          |          |   |          |                |          |   |
| $\vdash$ | 48       | 1          | +-   | $\vdash$   | <del>                                     </del> | -            | $\vdash$ | -        | $\vdash$   | $\vdash$ | <del> </del>    |    | $\vdash$ | 98       | <del>                                     </del> |                 | П        |          | $\neg$      | _        |          | $\neg$   | $\neg \uparrow$ |           |          | 148      | Γ            |              |          |          |   |          | I              |          | _ |
| -        | 49       | -          | $\vdash$   | <del> </del>                                     |  | -            | $\vdash$ | $\vdash$ | <del>                                     </del> | $\vdash$ |                 |    | -        | 99       | $\vdash$   | <b> </b>        |          | -        | $\vdash$    |          |          |          | Τţ              | $\neg$    |          | 149      | Т            | _            |          |          |   |          |                |          |   |
| -        | 50       | 1          | <del> </del>                                     |  | $\vdash$   | <del> </del> | $\vdash$ | $\vdash$ | +  | 1        | <del> </del>    | 1  | -        | 100      | 1  | <b> </b>        | $\vdash$ |          | $\vdash$    |          |          |          | $\dashv$        | _         |          | 150      |              |              |          |          |   |          |                | $\Box$   |   |
|          | ĮΟU      | _          | 1  |  | L  | l            | 1        | L        | 1  |          |                 | J  |          | 1.00     | 1  |                 |          |          |             |          | اا       |          |                 |           |          |          | _            |              |          |          |   |          |                |          |   |





